

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/037102 A1

(51) International Patent Classification⁷: A61B 18/18

(21) International Application Number:
PCT/IB2003/004459

(22) International Filing Date: 9 October 2003 (09.10.2003)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
PI2002A000059 22 October 2002 (22.10.2002) IT

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

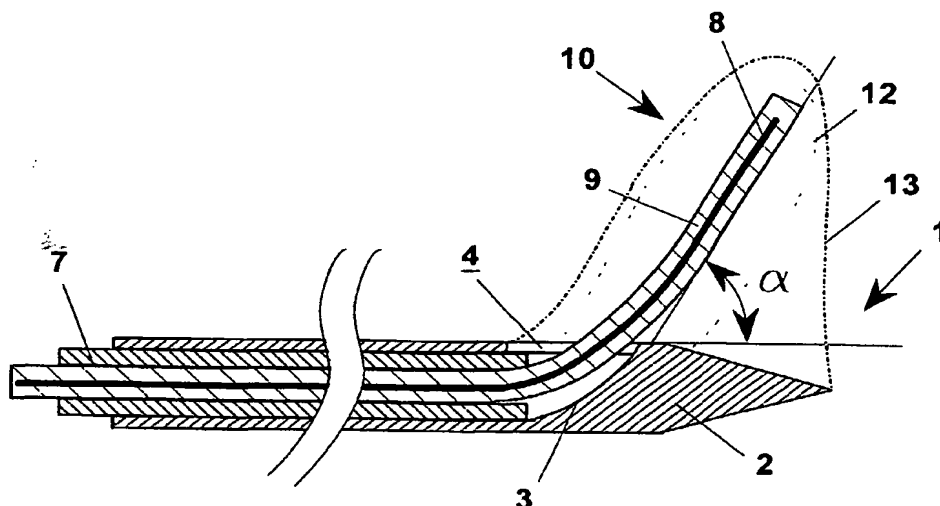
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INTERSTITIAL MICROWAVE ANTENNA WITH LATERAL EFFECT FOR TISSUES HYPERTHERMIA IN MINIMAL INVASIVE SURGERY



(57) Abstract: Application device (1), for example, a metal needle or a plastic catheter that has in the end portion (2) of the free end a gradually increasing thickness to form substantially a chute guide (3) which ends at a side opening (4) made on the application device (1). This way, an interstitial antenna (10) is obtained formed by a co-axial tube having an external conductor (7), by a dielectric layer (9) and by a central conductor (8) embedded in the dielectric layer (9) that insulates it from the external conductor (7). The antenna (10) can be put in a target tissue, along an actuation direction forming an angle α with the introduction direction. This way, the antenna (10) achieves an actual surface isothermal, i.e. a mass of tissue actually coagulated within a curved surface (13), since the tip of the application device (1) is connected electrically with the external conductor (7) and increases its area of action.

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INTERNATIONAL SEARCH REPORT

International Application No.
PCT/ 3/04459

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61B18/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	column 7, line 29 - column 8, line 16; figures 5, 7-9	2, 4
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

19 February 2004

Date of mailing of the international search report

27/02/2004

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PCT/73/04459

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